

Certificate of Analysis Verified by: Eric Napier

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Product Name:	Sahara One-Step RT-qPCR Master Mix	
Catalog Num: Lot Num: Expiration Date: Storage:	R02310 9144135 May 4, 2024 Store at -20 °C	
Master Mix Te	sts	Result
RT-qPCR Functio	onal And Performance Assay	PASS
Linear regression	tection of log-fold serial dilutions of a control RNA n analysis of quantification cycle (C _q) versus log inp plification efficiency between 93 – 107% and coeffic	out quantity

determination (\mathbb{R}^2) > 0.995. The master mix must also have a consistent \mathbb{C}_q for a fixed concentration RNA template.

Cofactor Buffer Tests	Result
Physical Appearance	PASS
Cofactor Buffer must have a clear, colorless to slightly pink appearance	e.
Cofactor Buffer Performance Test	PASS

Performance of the Cofactor Buffer is evaluated through RT-qPCR amplification of a control RNA template. The cofactor buffer must have a consistent C_q for a fixed concentration RNA template.

ROX Reference Dye Tests	Result
ROX Emission Spectrum Test	PASS
Fluorescence emission spectrum of ROX reference d	ye was measured at
1 nm intervals, at a scan speed of 6,000 nm/min usin wavelength. The peak emission wavelength must fal	•
ROX Performance Test	PASS

ROX reference dye was incorporated into a duplex assay set up using a five-point standard curve with ten-fold serial dilutions of two DNA templates. The efficiency for both targets must fall between 90 – 110% and $R^2 \ge 0.99$.